10 Aug 1960

Problems met between June 1959 and first successful CORONA retrieval.

Lack of velocity to reach orbit:
COR work on Agena: improvement of Bell Hustler rocket engine and of Agena airframe

Injection altitude of 120 statute miles is typical of COR

procedures, and equipments
Tracking and orbital computation/techniques developed to a high order of precision.

The on-orbit stabilization system demonstrated the first earth center stabilized vehicle. This system has been perfected to the point that the CORONA vehicle attitude errors are of the order of 1.0 degrees in pitch, 0.5 in roll, and 1.5 degrees in yaw.

Experience of the program produced new data relating to satellite internal pressure conditions and vehicle internal temperatures which in turn caused changes to be made in previous techniques.

Recovery accidents--tearing of chutes, principally, lessen with experience gained by the crews

Improved internal and external circuit design to enhance inverter performance and reliability and permit survival of inverters under wide variety of malfunctions or overloads.